



thread and (halt or suspend) and resum and resource and critical and event

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Articles

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Legal documents

[Coherency techniques for suspending execution of a thread until a specified memory access](#)[occurs](#)

DL Hill, DT Marr, D Rodgers, S Kaushik... - US Patent... 2006 - Google Patents

... 1 505 RECEIVE MEMORY WAIT OPCODE IN **THREAD 1** (UNMASK MONITOR BREAK **EVENTS**)**SUSPEND** FURTHER T1 ... WRITE TO MONITOR ADDRESS SET MONITOR **EVENT** PENDINGINDICATOR r120 **HALT** MONITOR 730 ... CONTINUE **THREAD** EXECUTION r32 FIG. ...

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[An Esterel compiler for large control-dominated systems](#)

[PDF] from 128.59.11.212

SA Edwards - Computer-Aided Design of Integrated Circuits... 2002 - [ieeeexplore.ieee.org](#)... Later, Zhu and Lin [12] proposed an algorithm that avoids the exponential increase in code size by allowing each process to **suspend** and **resume** at interprocess communication points (ie ... An exit node sends control directly to the parallel for its **thread**: a **halt** sends control back ...

Cited by 71 Related articles All 14 versions Import into BibTeX

[Instruction sequences for suspending execution of a thread until a specified memory access](#)[occurs](#)

S Kaushik, JB Crossland, DT Marr... - US Patent App. 16/... 2001 - Google Patents

... CYCLE TYPE AND ADDRESSES AFFECTED WRITE TO MONITOR ADDRESS SET MONITOR

EVENT PENDING INDICATOR T **HALT** MONITOR /720 ... 350, one implementation of a monitor310, and one specific implementation of **thread suspend** and **resume** logic 377 ...

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[Method and apparatus for suspending execution of a thread until a specified memory access](#)[occurs](#)

D Rodgers, DT Marr, DL Hill, S Kaushik... - US Patent... 2008 - Google Patents

... MEMORY WAIT OPCODE IN **THREAD 1** (UNMASK MONITOR BREAK **EVENTS**) **SUSPEND**FURTHER T1 ... TO MONITOR ADDRESS SET MONITOR **EVENT** PENDING INDICATOR **HALT**MONITOR 720 ... 11905 MWAIT BREAK **EVENT** 915 CONTINUE **THREAD** EXECUTION FIG. ...

Cited by 4 Related articles All 4 versions Import into BibTeX

[Emulation: suspension mode with frame controlled resource access](#)

GL Swoboda, DR Matt - US Patent 6,557,116, 2003 - Google Patents

... in response to a debug **event** and to leave the debug **suspend** state to **resume** 55 execution ... of the sequence of instructions ceases while the processor is in the debug **suspend** state ... The emulation circuitry is operable to access the system **resources** in response to an 60 access ...

Cited by 10 Related articles All 2 versions Import into BibTeX

[Method and apparatus for suspending execution of a thread until a specified memory access](#)[occurs](#)

D Rodgers, DT Marr, DL Hill, S Kaushik... - US Patent App. 11/... 2007 - Google Patents

... r EXAMINECYCLTYPEAND ADDRESSES AFFECTED WRITE TO MONITOR ADDRESS SET

MONITOR **EVENT** PENDING INDICATOR **HALT** MONITOR 720 ... one implementation of a monitor 310, and one specific implementation of **thread suspend** and **resume** logic 377 ...
Cited by 1 Related articles All 2 versions Import into BibTeX

Event-based debugging of object/action programs

CC Lin, RJ LeBlanc - ACM SIGPLAN Notices, 1993 - dl.acm.org

... Therefore, an object at any point in time may have several **threads** of control executing inside it ... The user may **suspend** or **resume** computation at a specified **event** ... Second, by using world view information the user can **halt** a computation globally with respect to a local **event**, SW h ...
Cited by 28 Related articles All 2 versions Import into BibTeX

Queued locks using monitor-memory wait

P Hammarlund, JB Grossland, A Aggarwal... - US Patent... 2008 - Google Patents

... 505 '00 RECEIVE MEMORY WAIT OPCODE IN **THREAD** 1 (UNMASK MONITOR BREAK **EVENTS**)
SUSPEND FURTHER T1 ... 6) **RESUME/CONTINUE** **THREAD** 1 510 ... READ WRITE TO MONITOR
ADDRESS SET MONITOR **EVENT** PENDING INDICATOR **HALT** MONITOR 730 ...
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Queued locks using monitor-memory wait

P Hammarlund, JB Grossland, A Aggarwal... - US Patent... 2007 - Google Patents

... IN **THREAD** 1 (UNMASK MONITOR BREAK **EVENTS**) 515 **SUSPEND** FURTHER T1 ... FLUSH
PIPELINE p RE-PARTITION **RESOURCES** 560 **RESUME/CONTINUE** **THREAD** 1 565 ... TO
MONITOR ADDRESS SET MONITOR **EVENT** PENDING INDICATOR **HALT** MONITOR 720 ...
Cited by 6 Related articles All 4 versions Import into BibTeX

Behavioral modular description of fault tolerant distributed systems with AADL Behavioral Annex

(PDF) from telecom-paristech.fr

G Lasser, T Robert, L Puelier... - New Technologies of... 2010 - IEEE Xplore IEEE.org

... Complete state represents a **suspend/re-**sume state out of which **threads** and devices ... state before
initialization actions; one or more complete state representing **halt/resume** state; zero or ... execution
state and one final state representing finalization completed by **thread** or device ...
Related articles All 2 versions Import into BibTeX

INTEGRATED MECHANISM FOR SUSPENSION AND DEALLOCATION OF COMPUTATIONAL THREADS OF EXECUTION IN A PROCESSOR

K Kessel - EP Patent 1,660,993, 2008 - freepatentonline.com

... operand is a second predetermined value, said yield instruction instructs the microprocessor
core to unconditionally **resume** issuing instructions ... in the qualifier mask of GPR rs is set (step
3208), the **thread** is **suspended** until at ... This is independent of any per-**thread** halted state. ...
Related articles Cached Import into BibTeX

Debugger thread synchronization control points

CL Bates, JM Ryan - US Patent 6,375,124, 2002 - Google Patents

... Mutexes allow the computer program to continue execut- ing in so far as not all **threads**
may be **suspended**. Break points are intended to **halt** execution completely, although break
points may be conditionally triggered such as with a variable. ...
Cited by 47 Related articles All 2 versions Import into BibTeX

Queued locks using monitor-memory wait

P Hammarlund, JB Grossland, A Aggarwal... - US Patent... 2009 - Google Patents

... WAIT OPCODE IN **THREAD** 1 (UNMASK MONITOR BREAK **EVENTS**) **SUSPEND** FURTHER
T1 ... 6) 555 RE-PARTITION 1560 **RESOURCES** **RESUME/CONTINUE** **THREAD** 1 1565 510 ...
MONITOR ADDRESS SET MONITOR **EVENT** PENDING INDICATOR **HALT** MONITOR 730 ...
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Method to segregate suspicious **threads** in a hosted environment to prevent CPU **resource** exhaustion from hung **threads**

N Cheez - US Patent 7,539,072, 2009 - Google Patents

... 26 28- 30- 32- EXECUTE DETERMINED NUMBER OF INSTRUCTIONS **SUSPEND** EXECUTION OF ... **threads** entering the **thread** quarantine manager 64 are immediately **halted** and their ... which illustrates a process via which suspicious **threads** in the **thread** quarantine manager ...

Cited by 3 Related articles All 2 versions Import into BibTeX

Systems and methods for CPU throttling utilizing processes

M Monasterio - US Patent 7,784,054, 2010 - Google Patents

... FIXED TIME 908—A) **SUSPEND** OBJECT FOR VARIABLE TIME 910—A) **RESUME** OBJECT -920 ... 1010 1012 NO CEASE MONITORING OF PROCESS/OBJECT END 1000 VARY **SUSPENSION** TIME OF ... If a **thread** in process2 then requests resourceX, a **thread** deadlock con- 35 ...

Related articles All 5 versions Import into BibTeX

Architectural and behavioral modeling with eadl for fault tolerant embedded systems

G Lasnier, T Robert, L Pautet, ... - Service-Oriented Real- ... 2010 - ieee.explore.elsee.org

... Complete state represents a **suspend/re-**sume state out of which **threads** and devices ... 2) **Thread** and Device Behavior Specifications: The behav-ior automaton of **thread** or device ... state before initialization actions; one or more complete state representing **halt/resume** state; zero ...

Cited by 1 Related articles All 6 versions Import into BibTeX

Emulation **suspension** mode handling multiple stops and starts

GL Swoboda, DR Marti - US Patent 6,564,339, 2010 - Google Patents

... register of the processor to cause processor **resources** to be ... 6,564,339 BI FOREGROUND FOREGROUND OR INTERRUPT BACKGROUND **SUSPENDED** AFTER EXECUTING ... INSTRUCTION CAN OBSERVE CPU CAN SERVICE TIME-CRITICAL INTERRUPTS (INCLUDING ...

Cited by 13 Related articles All 2 versions Import into BibTeX

The design of DARTS: A dynamic debugger for multiprocessor real-time applications

FJA Giesen, M Timmerman - Real Time Systems, 1997 ... 1999 - IEEEexplore.elsee.org

... Write) - Task control commands control the state of the target system (Start, Stop, **Resume**, **Suspend**) - Management commands ... Eg The breakpoint mechanism must not **halt** the target ... single **threads** of program execution in a node memory areas for dynamic allocation of variable ...

Cited by 4 Related articles All 3 versions Import into BibTeX

Emulation **suspension** mode with stop mode extension

GL Swoboda, DR Marti - US Patent 6,567,935, 2010 - Google Patents

... While running or **suspended**, the emulation circuitry can jam an instruction in the instruction register of the processor to cause processor **resources** to be read or ... ONE INSTRUCTION 310b-DEBUGGER ■ COMMAND DEBUGGER COMMAND, DEBUG-HALT STATE CAN ...

Cited by 15 Related articles All 2 versions Import into BibTeX

MIPS MT: A multithreaded RISC architecture for embedded real-time processing

KD Kinsell - Proceedings of the 3rd international conference on ... 2008 - dl.acm.org

... The ability to **suspend** execution based on a particular yield qualifier can be controlled by the operating system, using a ... Move From **Thread** Register) and MTR (Move To **Thread** Register) in- structions, which allow a privileged **thread** running on one TC to **halt** another TC ...

Cited by 17 Related articles All 3 versions Import into BibTeX

Improving the energy efficiency of the MANTIS kernel

C Duffy, U Rong, J Herbert, C Sheehan - Wireless Sensor Networks, 2007 - Springer

... often implemented as an infinite loop, is started (line 3). Processing might be **halted** using the ... line 3) and its register values are restored by the POP_THREAD_STACK function (line 5). The **thread** can then **resume** processing at the exact point it was previously **suspended** ...

Cited by 8 Related articles All 15 versions Import into BibTeX

Method and system to provide user-level multithreading

[PDF] from telecom-paristech.fr

[PDF] from lams.ac.uk

ET Grochowski, H Wang, JP Shen... - US Patent App. 10/... , 2004 - Google Patents

... method according to the present tech- niques comprises receiving programming instructions to execute one or more shared **resource threads** (shreds) via ... shared registers 720 Execute shred 721 Write shred execution results to shared registers 722 700 Execute **halt** shred 723 r ...

Cited by 9 Related articles All 2 versions Import into BibTeX

[\[book\] Concurrency in C++1](#)

PA Buhr, GJ Gitchfield... - 1998 - googlecode.com

... monitors : high-level **thread** control • tasks : active objects • other concurrent approaches : different concurrency paradigms Page 10 4 CHAPTER 1. INTRODUCTION Page 11. 2 Coroutine • A coroutine is a routine that can also be **suspended** at some point and **resume** from that ...

View as HTML All 5 versions Import into BibTeX

[PDF] from googlecode.com

[Opportunistic Multitasking](#)

M Van Milligen, TB Duffy, E Albert... - US Patent App. 12/... , 2010 - Google Patents

... APP → BG 315 SECOND APP → 320 CV PAUS RE COMMAND FOR AUDIO APP ¶¶ 325

AUDIO APP → **SUSPENDED** 330 **RESUME** COMMAND ... As used herein, the "**suspended state**" is a condition in which a process is not permitted to schedule **threads** for execution ...

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[Opportunistic Multitasking](#)

GR Chapman, R Schreyer, TB Duffy - US Patent App. 12/869,553, 2010 - Google Patents

... APP → BG 315 SECOND APP → 320 CV PAUS RE COMMAND FOR AUDIO APP ¶¶ 325

AUDIO APP → **SUSPENDED** 330 **RESUME** COMMAND ... As used herein, the "**suspended state**" is a condition in which a process is not permitted to schedule **threads** for execution ...

All 2 versions Import into BibTeX

[Opportunistic Multitasking](#)

I Ballard, DW Goodwin, J Schol Jr... - US Patent App. 12/... , 2010 - Google Patents

... APP → BG 315 SECOND APP → 320 RCV PAUSE COMMAND FOR AUDIO APP ¶¶ 325 AUDIO

APP → **SUSPENDED** 330 **RESUME** COMMAND ... As used herein, the "**suspended state**" is a condition in which a process is not permitted to schedule **threads** for execution ...

All 2 versions Import into BibTeX

[Computer system having suspend once resume many sessions](#)

DT Crump, ST Pancoast - US Patent 5,715,464, 1998 - Google Patents

Cited by 63 Related articles All 2 versions Import into BibTeX

[The design of DARTS: A dynamic debugger for multiprocessor real-time applications](#)

M Timmerman, FJA Giesen - Nuclear Science, IEEE... , 1992 - IEEE Xplore

... Write) - Task control commands control the state of the target system (Start, Stop, **Resume**, **Suspend**) - Management commands ... Eg The breakpoint mechanism must not **halt** the target ... single **threads** of program execution in a node memory areas for dynamic allocation of variable ...

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[Opportunistic Multitasking](#)

C Rothert, G Novick, HG Mason... - US Patent App. 12/... , 2010 - Google Patents

... APP → BG 315 SECOND APP → 320 RCV PAUSE COMMAND FOR AUDIO APP ¶¶ 325

AUDIO APP → **SUSPENDED** 330 **RESUME** COMMAND ... As used herein, the "**suspended state**" is a condition in which a process is not permitted to schedule **threads** for execution ...

All 2 versions Import into BibTeX

[PS] from keio.ac.jp

[Implementation and evaluation of real-time java threads](#)

A Miyoshi, T Kitayama, H Tokuda - Real-Time Systems... , 1997 - IEEE Xplore

... Java **thread** has a method called sleep(t) where a running **thread** will **suspend** at least ... acquires the lock asso- ciated with the specified object and ensure that no other **thread** is executing ... in many

thread and (halt or suspend) and resum and resource and critical and event - Google Scholar

UNIX sys- tems, the action of moving one window can dom- inate or **halt** all other ...

Cited by 29 Related articles All 7 versions Import into BibTeX

A power management system for providing suspend/resume capability in a computer system

UT Crump, ST Paroscast - EP Patent 6,761,192, 2006 - freepatentsonline.com

... routines are discussed in the text below and include the **Suspend Routine**, the **Resume Routine**, the ... driver issues the **Suspend Command**, the APM BIOS Routing Routine calls the **Suspend Routine**. ... In the standby state 152 the BIOS issues a **HALT** instruction in response to the ...

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Programming mipsoc platforms: Road works ahead!

[PDF] from uhwente.nl

R Leupers, A Vajda, M Bekoch, S Ha ... - Automation & Test ... 2009 - ieeeexplore.ieee.org

... the key issue is to partition the problem into parallel, individually sequential, de-coupled **threads** of execution ... system behaviour, as the system can **resume** the operation without recognizing that it has been **halted** ... The system execution will **suspend** when the signal is asserted. ...

Cited by 2 Related articles All 12 versions Import into BibTeX

Opportunistic Multitasking

GJ Freedman, J Haroot, G Litzinger, ... - US Patent App. 12/ ... 2610 - Google Patents

... BG 315 SECOND APP → 320 RCV PAUSE COMMAND FOR AUDIO APP g|| 325 AUDIO APP → **SUSPENDED** 330 **RESUME** COMMAND? ... As used herein, the "**suspended** state" is a condition in which a process is not permitted to schedule **threads** for execution, but ...

All 2 versions Import into BibTeX

[book] Real-Time Java Programming: With Java RTS

GJ Brunst, G Bielella - 2009 - books.google.com

... Use Real-Time **Threads** Tuning the Real-Time Garbage Collector **Critical** Reserved Memory ... Rules Scoped Memory Physical Memory Chapter 6 Synchronization **Resource** Sharing Priority Inversion Control Priority Inheritance in Action Wait-Free **Thread** Communication Using ...

Cited by 26 Related articles Library Search All 4 versions Import into BibTeX

[book] Concurrent and real-time programming in Java

[PDF] from sk-world.info

AJ Wellings - 2004 - books.google.com

... to another, • high performance – techniques such as just-in-time compilation allow performance-**critical** code to ... These are usually expressed in terms of **resources** allocated to a **thread**. In Java, for example, the lock associated with an object can be considered as a **resource**. ...

Cited by 199 Related articles Library Search All 5 versions Import into BibTeX

A programming model and system infrastructure for real-time synchronization in distributed multimedia systems

GS Blair, G Coulton, M Papathanasiou, ... - Selected Areas in ... 1996 - ieeeexplore.ieee.org

... multimedia applications require more rigid guarantees, for example in safety **critical** areas such as ... quality of service) and guaranteed (where the system pre-allocates **resources** to ensure ... and can exhibit an arbitrary level of internal concurrency (using **threads** plus semaphores ...

Cited by 29 Related articles ESI Direct All 3 versions Import into BibTeX

The reactive programming approach on top of Java/J2ME

JF Susini - Proceedings of the 4th international workshop on Java ... 2006 - d-sum.org

... a way to up- date the state of merge nodes when new **events** are gener- ated and make **suspended** instructions active ... **halt** stops a program forever. ... Those loops cannot terminate during the execution of one instant hogging the execution **thread** for ever and so making the ...

Cited by 3 Related articles All 2 versions Import into BibTeX

[PDF] A multithreading platform for multimedia applications

[PDF] from uni-kl.de

R Koeler, T Krump - Proceedings of Multimedia ... 2001 - wwwpages.informatik.uni-kl.de

... With a plain user-level **thread** package these operations would **halt** the entire application. ... To

suspend and **resume** **u-threads**, the **thread** package uses `sejmp` and `longjmp`. ... Moreover, if one **k-thread** is preempted another one of the application needs to be interrupted to do an ...

Cited by 4 Related articles View as HTML BL Direct All 10 versions Import into BibTeX

[PDF] **uN external API**

[PDF] from ucsc.edu

SR Montague - 1997 - soc.ucsc.edu

... **error** - Print an error and **halt**. ... A **thread** is **suspended** by calling `sysThreadSuspend()`. ... When each waiting **thread** moves to the head of the external wait queue, its execution resumes at the point inside the **critical** section where it waited for the needed **resource** or **event**. ...

Cited by 4 Related articles View as HTML All 6 versions Import into BibTeX

Method and apparatus for processing an **event** occurrence within a multithreaded processor

D Rodgers, D Boggs, A Merchant, R Kota. - US Patent ., 2002 - Google Patents

... Responsive to the detection of this first **event** occurrence, a second **thread** being processed within ...
Multithreading Comes of Age", Peter Song, Microdesign **Resources**, Jul. ... Multithreading for Rookies",
Ruediger R. Asche, <http://www.microsoft.com/win32dev/base/threads.htm>, Jul. ...

Cited by 67 Related articles All 2 versions Import into BibTeX

System, method, and computer program product for conditionally suspending/issuing instructions of a **thread**

KD Kissel - US Patent 7,676,660, 2010 - Google Patents

... The yield instruction instructs the microprocessor core to **suspend** issuing for execution instructions of a ... occurring **events** occurred to cause the microprocessor core to **resume** issuing the ... **Threads**:
Resource Sharing in SMT Processors for High Single-Thread Performance ...

Cited by 5 Related articles All 4 versions Import into BibTeX

[PDF] Compiler-assisted concurrency abstraction for **resource**-constrained embedded devices

[PDF] from vanderbilt.edu

J.Sallia - 2008 - etd.library.vanderbilt.edu

... memory usage overhead which may become prohibitive in **resource**-constrained systems. ... resumed, blocking calls are supported: when a long-running operation is invoked, the **thread** is **suspended** until the operation completes and the results are available. **Threads** offer a ...

Cited by 1 Related articles View as HTML Library Search All 6 versions Import into BibTeX

Lightweight asynchrony using parasitic **threads**

[PDF] from purdue.edu

KC. Sureshbabu, L. Zarek, R. Prasad. - Proceedings of the 5th ., 2010 - cit.ac.org

... Part 2 of the figure shows that **thread** T1 which hosts S1 continues execution by switching to a **suspended** (runnable) parasite S1m. ... Once this occurs, the parasitic **thread** can **resume** its execution. ...
Rule (Halt Thread) defines **thread** termination via a transition to a **halt** state. ...

Cited by 5 Related articles All 4 versions Import into BibTeX

Power management processor for computer systems having **suspend/resume** capability

BT Cruise, ST Parcast, IV Benson. - EP Patent ., 2001 - freepatentzone.com

... routines are discussed in the text below and include the **Suspend** Routine, the **Resume** Routine, the ... driver issues the **Suspend** Command, the APM BIOS Routing Routine calls the **Suspend** Routine. ... In the standby state 152 the BIOS issues a **HALT** instruction in response to the ...

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Method and apparatus for processing an **event** occurrence for a least one **thread** within a multithreaded processor

D Rodgers, D Boggs, A Merchant, R Kota. - US Patent ., 2006 - Google Patents

... Responsive to the detection of the **event** handling point for the second **thread**, at least a first **event** handler is invoked to handle at least the first pending **event**. ... 1995. Peter Song:
"Multithreading Comes of Age"; Microdesign **Resources**, Jul. 14, 1997; pp. 13-18 ...

Cited by 19 Related articles All 4 versions Import into BibTeX

A transparent checkpoint facility on NT

[PDF] from unix.net

J Strout, P Schuster, M Bach, Y Kuzman ... of the 2nd USENIX Windows NT ... , 1996 - [usenix.org](#)
... in the development of a facility for process migration, whereby processes can be **halted** on one ...
event object and all the **threads** simultaneously **resume** from where they were **suspended** by the ... Finally, the checkpoint **thread** puts itself to sleep, and waits for further Dump APC calls ...
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(PDF) A Hybrid Approach to Real-Time Synchronisation in Distributed Multimedia Systems

[PDF] from [psu.edu](#)

GS Blair, G Collins, M Papathomas, P Rubin ... Research Group Report ... , 1994 - [Gresnet](#)
... and can exhibit an arbitrary level of internal concurrency (using **threads** plus semaphores ...
Otherwise, if commitment is best effort, **resources** are not permanently dedicated and may be ...
The user can temporarily **suspend/resume** the diaporama phase with a toggle key with values ...
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High-level language debugging for concurrent programs

GS Goldsmidt, S Yamini, S Katz · ACM Transactions on Computer ... , 1996 - [di.acm.org](#)
... with a single sequential **thread** of control, there are multiple interacting **threads**, each with ... Thus,
by refusing to accept messages from a process, the monitor can **suspend** that process's ... Note
that reaching a breakpoint does not implement an instantaneous **halt** of the distributed ...
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(PDF) Implementation and Evaluation of Mixed-Criticality Scheduling Approaches for Periodic Tasks

[PDF] from [wustl.edu](#)

HM Huang, G Gili, C Liu ... Washington University in St. Louis, MO, ... , 2011 - [cse.wustl.edu](#)
... the schedulability of higher- criticality tasks: (1) since it is difficult to simply **halt threads** safely
atop ... aware of their deadlines' expirations and can cooperatively release **resources** and **halt**
execution, that ... at the same time, all lower-criticality tasks have to be **suspended** and can be ...
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Method and apparatus for entering and exiting multiple threads within a multithreaded processor

D Rodgers, D Soggs, A Merchant, R Kota ... US Patent ... , 2005 - [Google Patents](#)
... STATE MACHINE TO PROVIDE EXCLUSIVE ACCESS, IN TURN, TO EACH OF THE 1ST AND
2ND HANDLERS **RESUME** NORMAL SEQUENCING AND ISSUE FOR BOTH **THREADS** ...
"Multithreading Comes of Age", Peter Song, Microdesign **Resources**, Jul. ...
Cited by 69 · Related articles · All 2 versions · Import into BibTeX

(PDF) Exploring Coordination of Threads in Multi-Core Libraries

[PDF] from [upenn.edu](#)

M Mathew, ~~Mark Mathew~~ · [seas.upenn.edu](#)
... rely heavily on this aspect of the scheduler, as work belonging to **threads** that we **suspend** is
automatically picked up and completed by other non-**suspended threads** ... This checkpoint is only
entered if it was decided that the running **thread** should **halt**, and contains the ...
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Operating systems

G Maigret, G Meslov · EP Patent 2,296,089, 2011 - [freepatentsonline.com](#)
... In this embodiment, all the operating systems are rewritten to remove "**halt**" instructions and
replace them with an "idle" routine (eg an execution **thread**) which, when ... At the time of initially
booting up, the hardware **resource** dispatcher saves a copy of the secondary operating ...
Cached · Import into BibTeX

Fast synchronization for programs written in the java programming language

N Shayer · EP Patent 2,365,664, 2010 - [freepatentsonline.com](#)
... A **thread** may **halt** or block itself, yield control to other **threads**, or be blocked by virtue of ... by the
operating system at the beginning of the sequence, rather than at the point of **suspension**. ... with
the second embodiment, the OID is not placed on stack 701 until **thread** 1 unblocks at ...
Cited by 5 · Related articles · Cached · Import into BibTeX

(PDF) Real-Time Scheduling in SCOOP

[PDF] from [ethz.ch](#)

JJ Labrosse - 2002 - books.google.com

... Chapter 2 Real-time Systems Concepts 35 2.00 Foreground/Background Systems 36 2.01 **Critical**
Sections of Code 37 2.02 **Resources** 37 2.03 Shared **Resources** 37 2.04 ... Exclusion 49 2.19
Deadlock (or Deadly Embrace) 57 2.20 Synchronization 57 2.21 **Event** Rags 59 2.22 ...

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Architectural styles for runtime software adaptation

[PDF] from psu.edu

BN Taylor, IS Medvedev, ... - Software Architecture, 2009 ... - IEEE Xplore view.org

... be dra- matically eased, for the meta-narrative overseeing a computation may simply **halt** a
computation ... is the most relevant for discussion of runtime adaptation: one common **thread** in SOA ...
No explicit support in pipe-and-filter; Weaves allows data buffering and **suspen**- sion of ...

Cited by 31 Related articles All 7 versions Import into BibTeX

Advanced Topics

OT Clocks, P Hierarchy - Springer

... This improved speed is because SC_CTHREAD implementation does not have to actually **resume**
and **suspend** at each intermediate wait(). ... If you want to stop an SC_CTHREAD, then call the **halt**()
method. ... A dangerous aspect of spawned **threads** relates to the return value. ...

Import into BibTeX

[PDF] Open Source Implementation of Hierarchical Scheduling for Integrated Modular Avionics

[PDF] from oead.org

J Zamora, A Juan, A Crespo - oead.org

... Normal IO manage- ment read/write IO Normal Partition management mode change, **halt** / re-
set / **resume** / **suspend** / shutdown partitions (system) System ... System.BB. **Threads: Thread**
management, in- cluding synchronization and scheduling control functions ...

Cited by 1 Related articles View as HTML Import into BibTeX

Compiler-based pre-execution

[PDF] from umd.edu

D Kim - 2004 - drum.bumc.edu

... Because of the small communication and **thread** syn- chronization cost, it becomes possible to
exploit new types of **thread**-level parallelism at a much ... Secondly, some **critical** hardware **resources**
in single-chip multithreading processors are often shared or partitioned. Thus ...

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[PDF] Energy-Aware Computing for Android* Platforms

[PDF] from vtedu

HC Chang, KW Cameron - scape.cs.vt.edu

... In this state, the system enables and resumes the hardware components **suspended** during early
suspend[3][10]. ... It also means the amount of memory will be freed after this process is **halted**. ...
allocated to memory and to see which classes and **threads** are creating objects. ...

View as HTML Import into BibTeX

Method of providing microcontroller cache memory

AD Alsop - US Patent App 11/259,755, 2005 - Google Patents

... This **suspension** function is referred to as context switching. ... A context is an operating environment
for a **thread** of software execution. ... [0055] The Context Ready Status Register has one of the
following states: [0056] **Halted**—context will not execute until software has moved it to ...

All 2 versions Import into BibTeX

Microcontroller cache memory

AD Alsop - US Patent App 11/259,741, 2005 - Google Patents

... applications require a micropro- cessor to execute several hundreds of task switches per second
and many concurrent **threads**. ... This **suspension** function is referred to as context switching ... 0012]
The context of a task denotes its state: all the information required to **resume** the task ...

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[PDF] Intraprocess Concurrency Under UNIX

[PDF] from hp.com

SB Maravich - 1990 - hpi.hp.com

... asynchronously and concurrently, but the default behavior presented to each **thread** should be synchronous', A corou- line simulation must therefore mediate and transform a **thread's** operating-system requests in order to **suspend** and **resume threads**, plus do ...

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(book) Mach kernel interface manual

PV Sarin, A Tevanian, G Golub, R Rashid, W Bolosky . - 1988 - draga.com

[PDF] from draga.com

... a paged virtual address space (potentially sparse) and protected access to system **resources** (such as ... to give exactly one message to the operating system without being **suspended** should the ... Specifies that msg_send should return if a software interrupt occurs in this **thread**. ...

Cited by 71 Related articles View as HTML Library Search All 103 versions Import into BibTeX

Methods and apparatus for profiling threaded programs

DR Armstrong, AD Nguyen, PM Petersen . - US Patent App. 10/ ... , 2003 - Google Patents

... **SUSPEND** * IF THE TARGET **THREAD** IS NOT ALREADY **SUSPENDED** - SET THE TIMESTAMP THAT THE **THREAD** IS **SUSPENDED** * ACTUALLY DO ... 18 1900* **RESUME** * GET TIMESTAMP T BEFORE SIGNALING * GET THE TIME THAT THE TARGET **THREAD** WAS ...

Cited by 6 Related articles All 2 versions Import into BibTeX

(pdf) Configuration and Scheduling tools for TSP systems based on XtratuM

L Ricolfi, M Masmano, V Boccali, S Peiro . - Data Systems in ... , 2010 - xtratum.org

[PDF] from xtratum.org

... XAL is only useful for those partitions that are mono-**thread** and do not need an operating systems. All services provided the XtratuM hy- percalls are available to the application. ... mode change, **halt** / reset / **resume** / **suspend** / shut- down partitions (system) System ...

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Deterministic microcontroller with context manager

AD Alsop . - US Patent 7,562,207, 2008 - Google Patents

... This **suspension** func- tion is referred to as context switching ... A context is an operating environment for a **thread** of software execution ... Context ready status transitions are caused by: interrupts; fatal faults (eg a nested bus fault will **halt** the faulting con- text); STOP, LPSTOP, RESET ...

Related articles All 4 versions Import into BibTeX

(ps) Java Threads

DJ Serj . A white paper from Sun Microsystems, 1996 - mathcs.emory.edu

[PS] from emory.edu

... Most programs are written in such a way that each **thread** needs something from the other **threads**, with the result that when the running **thread** needs that something (data, or a **resource**), it will voluntarily stop running and allow other **threads** to run until that something becomes ...

Cited by 3 Related articles View as HTML Import into BibTeX

(pdf) ENEE647 Design of Distributed Computer Systems: Term Project Report Design and Implementation of Scheduler Activation in Nachos Operating System

Q Shi, C Li - 1999 - CiteSeer

[PDF] from psu.edu

... No System except SC **Halt** has been implemented. ... A user who wants to write multi-**thread** application has to rst initialize the user-level **thread** system. ... Normally calling SC Exec gets the pid of the child, and by calling SC Join using this pid, parent process will **suspend** until child ...

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(pdf) An Empirical Study of Technologies to Implement Servers in Java

BC Demsky . 2001 - demsky.eecs.uci.edu

[PDF] from uci.edu

... calls, as doing so would cause all of the **threads** to **halt** ... catch (IOException e) { System.err.println("IOException in Worker "+e); } } Figure 2-3: **Thread** Pooled version of ... public mainContinuation(mainEnvironment env) { this.env=env; } public void **resume** (Object c 1) { S ocket c ...

Cited by 1 Related articles View as HTML Library Search All 3 versions Import into BibTeX

Deterministic microcontroller context arrangement

AG Alsup - US Patent 7,516,311, 2009 - Google Patents

... This **suspension** function is referred to as context switching ... A context is an operating environment for a **thread** of software execution ... Context ready status transitions are caused by: interrupts; fatal faults (eg a nested bus fault will **halt** the faulting context); STOP, LPSTOP, RESET ...

Related articles All 4 versions Import into BibTeX

2nd USENIX Windows NT Symposium (Technical Program)

J Seng, P Schuster, M Bach, Y Kuzmin - static.usenix.org

... in the development of a facility for process migration, whereby processes can be **halted** on one ... **event** object and all the **threads** simultaneously **resume** from where they were **suspended** by the ... Finally, the checkpoint **thread** puts itself to sleep, and waits for further Dump APC calls ...

Related articles All 2 versions Import into BibTeX

(PDF) Instrumenting Java Bytecode to Replay Execution Traces of Multithreaded Programs

MAC Baer - 2003 - www.sssz.informatik.tu-cottbus.de

... 51.95 **suspend/resume** ... Only in the case that t is the current **thread**, calling $t.wait$ is equivalent to this wait and t is **suspended** by itself. ... Their notation of a logical **thread** schedule interval is based on counting the relative number of **critical events** (shared variable accesses and ...

Cited by 6 Related articles View as HTML All 9 versions Import into BibTeX

(PDF) from tu-cottbus.de

Providing protected access to critical memory regions

U Savaşoglu, P Rajagopal, R Sahita - US Patent App. 11/... , 2006 - Google Patents

... to monitor and manage various system-wide functions such as managing system **resources** for more ... or monitors, executing proprietary code, or placing the whole system in a **suspended** state. ... of the processor, switch back to protected or real mode, and **resume** executing the ...

All 2 versions Import into BibTeX

(PDF) Symbian OS Game Basics

J Sjöblom - Games on Symbian OS: A Handbook for Mobile ... , 2006 - 123seminarsonly.com

... run, Symbian OS can enter a power-saving state where all **threads** are **suspended**, thus optimizing ... The requirement to regularly run the game **thread** prevents the OS from powering down all ... of time only, perhaps two minutes, and then display the pause menu and **halt** the game ...

View as HTML All 18 versions Import into BibTeX

(PDF) from 123seminarsonly.com

Very concurrent mark-&-sweep garbage collection without fine-grain synchronization

I. Huelstbergen, P. Winterbottom - ACM SIGPLAN Notices, 1998 - dl.acm.org

... We remark that the degrees of freedom on the rates of marking and sweeping enable exploitation of a range of **resource** tradeoffs, but makes "optimal" tuning for ... barrier-sync (marker, sweeper); **suspend-thread** mutator; while (stores # 8) { **resume-threads** (mutator, marker ...

Cited by 39 Related articles BL Direct All 29 versions Import into BibTeX

(PDF) from bell-labs.com

(PDF) Error injection-based failure profile of the IEEE 1394 bus

D.J. Beaulieu - 2003 - ojs.illinois.edu

... This means that a created process does not inherit **resources** from the process that created it. File handles are neither Page 18. ... One **thread** may **halt** and wait for a particular signal, continuing when another **thread** sends that 18 Page 27. signal at a later point in time. ...

Cited by 7 Related articles View as HTML Library Search All 2 versions Import into BibTeX

(PDF) from illinois.edu

Ravenscar: Java: a high integrity profile for real time Java

J Kwon, A. Wellings, S. King - Concurrency and Computation ... , 2005 - Wiley Online Library

... the connected, limited device configuration (CLDC), has been defined for small, **resource**-constrained mobile ... ie the main() method and one RealtimeThread), all non-time-critical activities and ... This includes initialization of all real-time **threads**, memory objects, **event** handlers ...

Cited by 114 Related articles BL Direct All 37 versions Import into BibTeX

(PDF) from alaa.org

(book) Pthreads programming

B Nichols, O Butler, JP Farrell - 1996 - books.google.com

... specific include tables, maintained by the operating system, to track system-supplied **resources** such as open files (each requiring a file descriptor), communication end points (sockets), locks, and signals Figure 1-2 shows the same C program as a process with a single **thread**. ...

Cited by 425 Related articles Library Search All 6 versions Import into BibTeX

(PDF) A virtual machine introspection based architecture for intrusion detection

T Garfinkel, M Rosenblum - Proc. Network and Distributed Systems Security ..., 2003 - isoc.org

... VMMs virtualize all hardware **resources**, allowing multiple virtual machines to transparently multiplex the **resources** of the physical machine[16]. ... This interface allows the VMI IDS to **suspend** a VM's execution, **resume** a suspended VM, checkpoint the VM, and reboot the VM. ...

Cited by 627 Related articles View as HTML All 59 versions Import into BibTeX

(PDF) from isoc.org

Toward mobile phone Linux

Y Nakamoto - ... Conference, 2004. Proceedings of the ASP- ..., 2004 - ieee.explore.ieee.org

... So code and data blocks in applications and the kernel should be allocated to specified memory.

(2) Clock rate should be minimal at idle time (3) Kernel **threads** are **suspended** in power save mode. ... PIW2 p PKI -y-term call begins (bottom half) (top half)? ... 11. Thread guard pages ...

Cited by 6 Related articles All 3 versions Import into BibTeX

(PDF) from psu.edu

Tracing and replay of real-time concurrent programs in Vxworks

DK Patel - 2007 - dsp.ece.utd.edu

... tems. A **thread**, when the term is used, may be thought of as a sub-sequence of connected ... executing. The **suspended** state is used to **halt** a task for debugging without loss of its context registers. Several system tasks exist concurrently with user defined tasks. These are the ...

Related articles All 5 versions Import into BibTeX

(PDF) from uta.edu

Configurable application specific standard product with configurable I/O

W Browne, PJ Short, T Wray - US Patent 7,680,967, 2010 - Google Patents

... to execute several hundreds of task switches per second and up to approximately 20 concurrent **threads**. ... This **suspension** function is referred to as context switching. ... By minimizing intervention, the microcontroller is not **halted** during the transfer of data via the I/O. ...

Related articles All 4 versions Import into BibTeX

(PDF) Columbia University Department of Computer Science

K Ponamgi - academiccommons.columbia.edu

... **thread** shares memory and **resources** With all other **threads** executing in the same task. ...

It should be noted that the **wait** **suspend** and **resume** mechanisms are based on reference counts (eg, a twice **suspended thread** must be resumed twice). ...

Related articles View as HTML Import into BibTeX

(PDF) from columbia.edu

Multiple thread multiple data predictive coded parallel processing system and method

WB Clery III - US Patent 6,079,063, 2000 - Google Patents

... 20, 2000 [54] MULTIPLE THREAD MULTIPLE DATA PREDICTIVE CODED PARALLEL PROCESSING SYSTEM AND METHOD [75] Inventor: William B. Clery, III, Rockville, Md. [73]

Assignee: Patton Electronics Co., Gaithersburg, Md. [21] Appl. No.: 09/054,392 [22] Filed: Apr. ...

Cited by 177 Related articles All 2 versions Import into BibTeX

Exploring the performance limits of simultaneous multithreading for memory intensive applications

E Athanasiou, N Anastopoulos, K Kouris - The Journal of ..., 2008 - Springer

... overhead (eg, flash-copy of live-in variables), or special hardware for lightweight synchronization and low overhead **suspension**/resumption of ... When a waiter **thread** (ie, anyone but the last) reaches the barrier, it enters the spin-wait loop, wherein it executes a **halt** instruction to ...

Cited by 7 Related articles All 23 versions Import into BibTeX

(PDF) from ntua.gr

Configurable input/output interface for an application specific product

T Wray, P J Short, W Groume - US Patent 7,526,579, 2009 - Google Patents

... This **suspension** func- tion is referred to as context switching. ... 1 illustrates a deterministic microcontroller 1 com- troller is not **halted** during the transfer of data via the UIC. ... A context is an operating environment for a **thread** of software execution. ...

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Symbolic model checking on SystemC designs

ON Gao, YS Ho, C Hsieh - ... Conference (DAC), 2012 ... 2012 - IEEE/ACM Press

... Note that the first three cases will **halt** the design at different time stamps ... we define the sus- pended status of a **thread** as: Definition 2: The **suspended** status of a **thread** is an ordered pair $ss = \langle loc, tr \rangle$, where loc is the program location at which the **thread** is **suspended**, and tr ...

Import into BibTeX

Orthogonal Persistence for the Java (tm) Platform: Specification and Rationale

M Jordan, M Atkinson - 2000 - dsl.acm.org

... In the case of an abnormal termination, the effect is as if the Runtime.**halt** method had been ... that in the special case of an OPI virtual machine exit with no active **threads**, the static ... Consequently, any side effects of a checkpoint listener are included in the **suspended** computation. ...

Cited by 19 Related articles Library Search All 13 versions Import into BibTeX

ORB+/XtraM: an open partitioning platform for Ada

A Esquinas, J Zamorano, J de la Puente - ... - Ada-Europe 2011, 2011 - Springer

... IP Communication create ports read/receive/write/send messages normal IO management read/write IO normal Partition management mode change **halt/reset/resume/suspend/shutdown** partitions system ... Kernel Protection: **Thread** Management: BB Protection: BB Time: ...

Cited by 1 Related articles All 3 versions Import into BibTeX

[pdf] Security reference model for the java developer's kit 1.0.2

M Erdoz, B Hartman, M Mueller - Sun Microsystems, November, 1996 - imamu.edu.sa

... Note that many 'sensitive' methods (eg **suspend**) in class **Thread** are declared 'final'. They are provided by the JDK and are ... Applet calls the application to attempt to manipulate a **thread** group ... Applet calls the application to attempt to exec a new process or cause the JVM to **halt**. ...

Cited by 14 Related articles All 2 versions Import into BibTeX

[book] Killer game programming in java

A Davison - 2005 - books.google.com

... Subscribers can zero in on answers to time-critical questions in a matter of ... Java Sound API Compared with JMF and JOAL Java Sound API **Resources** Audio **Resources** ... on Java, so you understand about classes, objects, inheritance, exception handling, **threads**, and basic ...

Cited by 81 Related articles Library Search All 11 versions Import into BibTeX

[pdf] A Portable Real-time Operating System for Embedded Platforms

MO Okyay, IS Aytepe - 2004 - library.ryte.edu.tr

... a device driver that does not run in privileged mode is less likely to cause a system **halt** than an ... Not all processes or **threads** must be real-time ... the hardware; to create/ terminate tasks; and to control the scheduling mechanism by using the reschedule, sleep, **suspend** and **resume** ...

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Did you mean to search for: thread and (halt or suspend) and resume and resource and critical and event



